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1 1 Fundamentals of Magnetism Jun Yamauchi 1.1 Magnetism of Materials 1.1.1 Historical Background Magnets play a crucial role in a modern life; as we know, a vast number of devices are employed in the electromagnetic industry. In ancient times human beings experienced magnetic phenomena by utilizing natural iron minerals, especially magnetite.

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61 Fundamentals of Magnetism attributed to whether or not the material possesses magnetic moments in atomic, ionic, and molecular states. Paramagnetic materials sometimes experience magnetic phase transitions at low temperatures. This means cooperative orderings of magnetic moments occur through exchange and dipolar interactions between them.

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1 Fundamentals Of Magnetism Wiley 4 1 Fundamentals of Magnetism  $E = ? \text{ mB}$  (1.5) The SI unit of magnetic induction is T (tesla). 1.1.3 Definitions of Magnetization and Magnetic Susceptibility Each magnetic moment of a molecular magnet, including atoms or ions, is accounted for as a whole by vector summation. This physical parameter needs a

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Fundamentals of Magnetism – 1 Helmut Kronmüller is the editor of Handbook of Magnetism and Advanced Magnetic Materials, published by Wiley. Stuart Parkin is the editor of Handbook of Magnetism and Advanced Magnetic Materials, published by Wiley.

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Magnetic relationships are given and an equation for the inductance is derived. The nature is governed by a set of laws. A subset of these laws is the physics electro-magnetic (EM) laws. The chapter then discusses the origin of the magnetic field. It is shown that moving charges are sources of the magnetic field.

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Many electronic circuits require the use of inductors and transformers [1]–[47]. These are usually the largest, heaviest, and most expensive components in a circuit. They are defined by their elec-tromagnetic behavior. The main feature of an inductor is its ability to store magnetic energy in the form of a magnetic field.

## 1 Fundamentals of Magnetic Devices - CORE

Helmut Kronmuller is the editor of Handbook of Magnetism and Advanced Magnetic Materials, published by Wiley. Stuart Parkin is the editor of Handbook of Magnetism and Advanced Magnetic Materials, published by Wiley. Permissions. Request permission to reuse content from this site. Table of contents. VOLUME 1: Fundamentals and Theory. Part 1 ...

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